

***Consideration of an Order Approving  
Three Variances to Water Shortage  
Order No. 2007-870-DAO-WS, which imposed  
Modified Phase III water restrictions  
Item 42-B***

***South Florida Water Management District  
February 14, 2008***



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# City of Naples

- Recommend approval
- Flexibility to supplement reclaimed water with up to 4 MGM of traditional water to allow complete utilization and expansion into residential areas
- Residential users restricted to 3-days a week
- Non-reclaimed water users remain at 1-day a week
- Reclaimed water deliveries to golf courses decreased
- Utility to communicate and enforce restrictions

# City of Marco Island

- Recommend approval
- April 15 – July 15 – utilize ASR to allow irrigation 2-days per week
- Continue to comply with 1-day a week restrictions to April 15
- Volume of ASR water to be used is 75% of amount recoverable with chloride levels below 250 mg/L

# **Sailfish Point Property Owners Association**

- 100% of irrigation water provided from Floridan aquifer with onsite reverse osmosis plant
- 100% of wastewater used for golf course irrigation
- Previous water shortage order did not restrict use of Floridan water so community was exempt from restrictions
- Recommend approval of variance request to continue exemption from water restrictions due to 100% use of alternative water supply source (same as Town of Highland Beach)

***Consideration of an Order Denying  
a Variance to Water Shortage  
Order No. 2007-870-DAO-WS, which imposed  
Modified Phase III water restrictions  
Item 42-C***

***South Florida Water Management District  
February 14, 2008***



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# **South Martin Regional Utility Town of Jupiter Island & Hobe Sound**

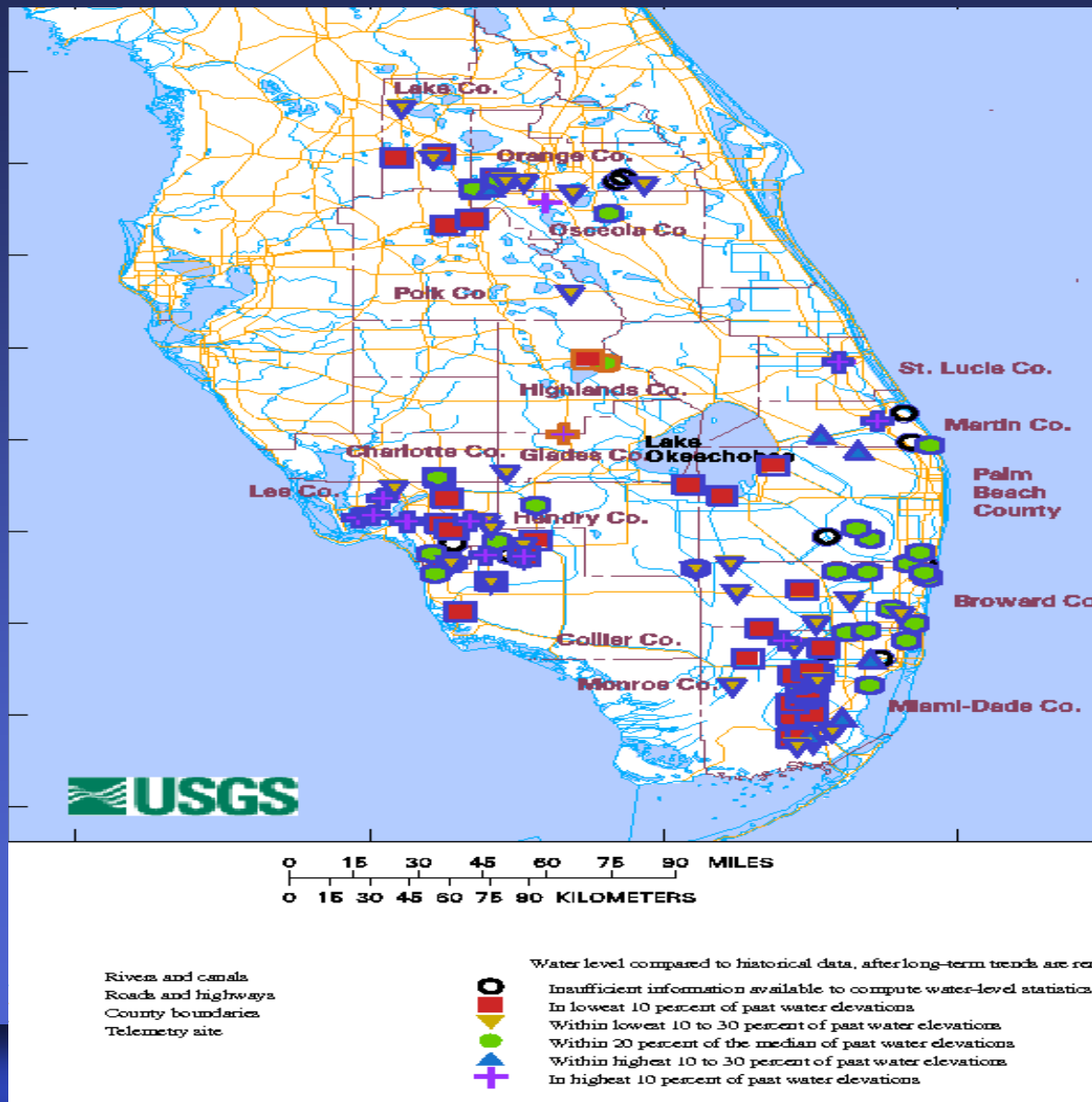
- **SMRU requests all users within Service Area be allowed Phase I (three-day a week) irrigation**
- **Asserts proposed restrictions will achieve same level of demand reduction**
- **Asserts National Weather Service predicts above average wet season**
- **Asserts condition of water resources do not warrant Phase III restrictions**

# **South Martin Regional Utility**

## **Town of Jupiter Island & Hobe Sound**

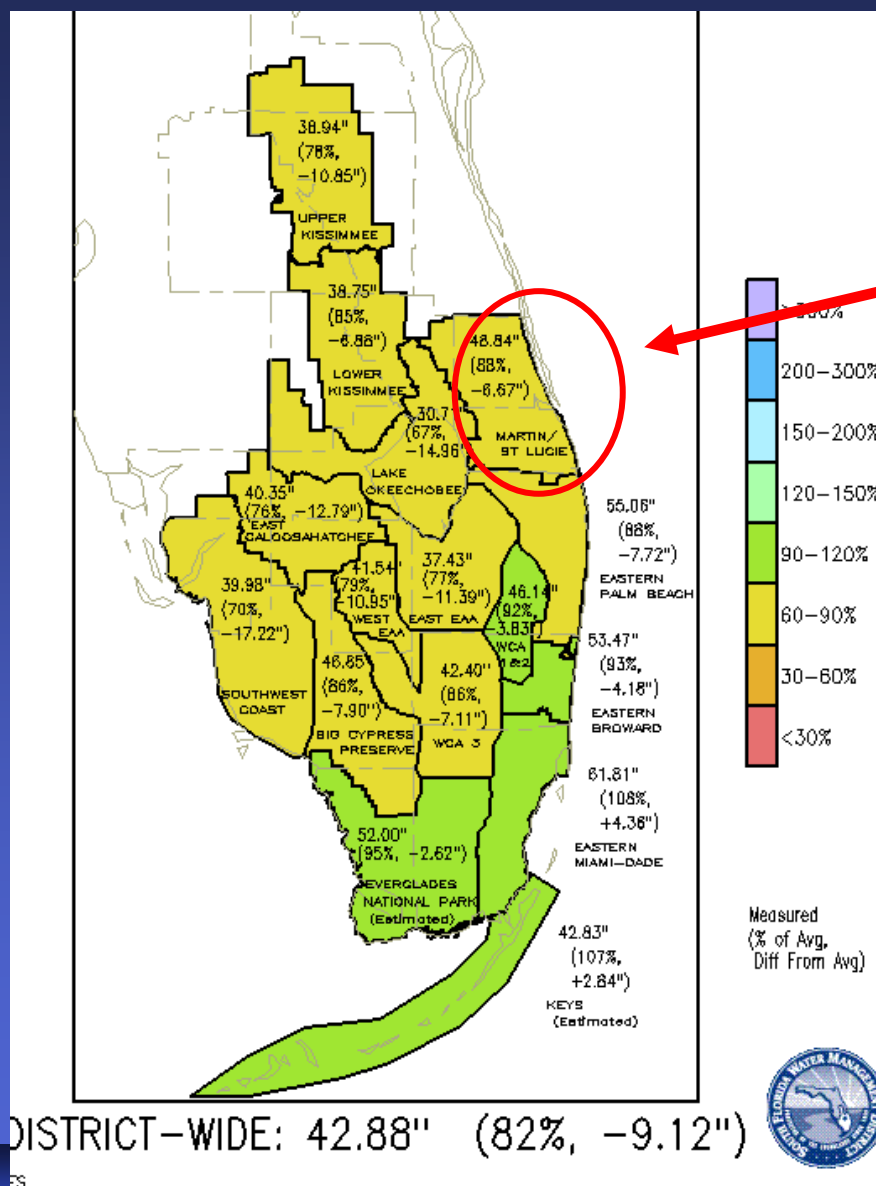
- Permitted allocation is 8.7 MGD - about 80% is from Surficial aquifer.
- Capacity of the Reverse Osmosis facility is 2 MGD.
- National Weather Service predicts a high probability of below average rainfall through April 2008 (~ La Nina conditions).
- SMRU proposed restrictions would likely generate water savings of 16.5%.
- Rule 40E-21.275 F.A.C. requires alternative restrictions approved to achieve the same level of demand reductions (as the Order) and be binding and enforceable.

# Water levels in South Florida 2/12/08





# Rainfall within SFWMD: 1/2/07 – 1/1/08

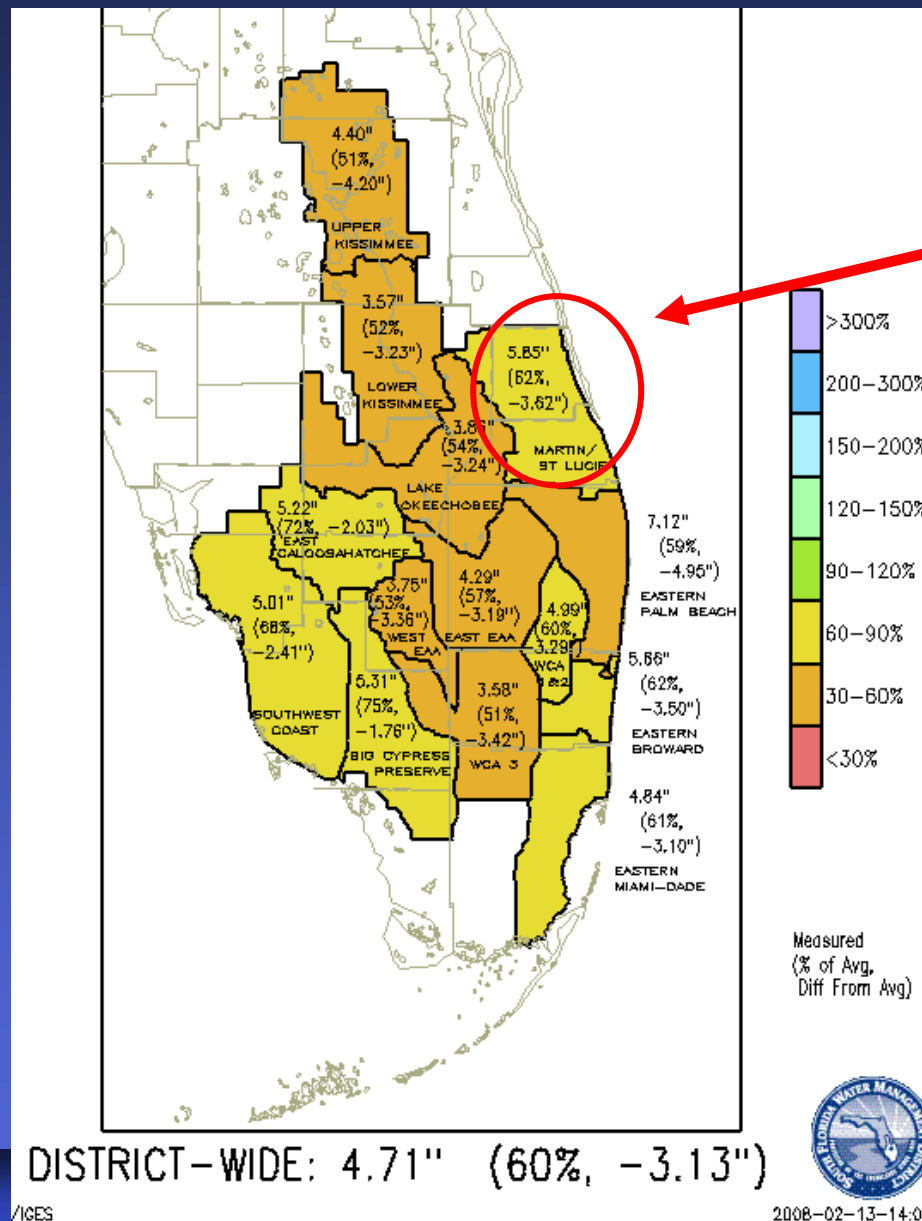


**Martin / St. Lucie Basin**

**Rainfall in 2007 =**

**88% of normal  
-6.67 inches**

# Rainfall within SFWMD: 11/2/07 - to 2/13/08

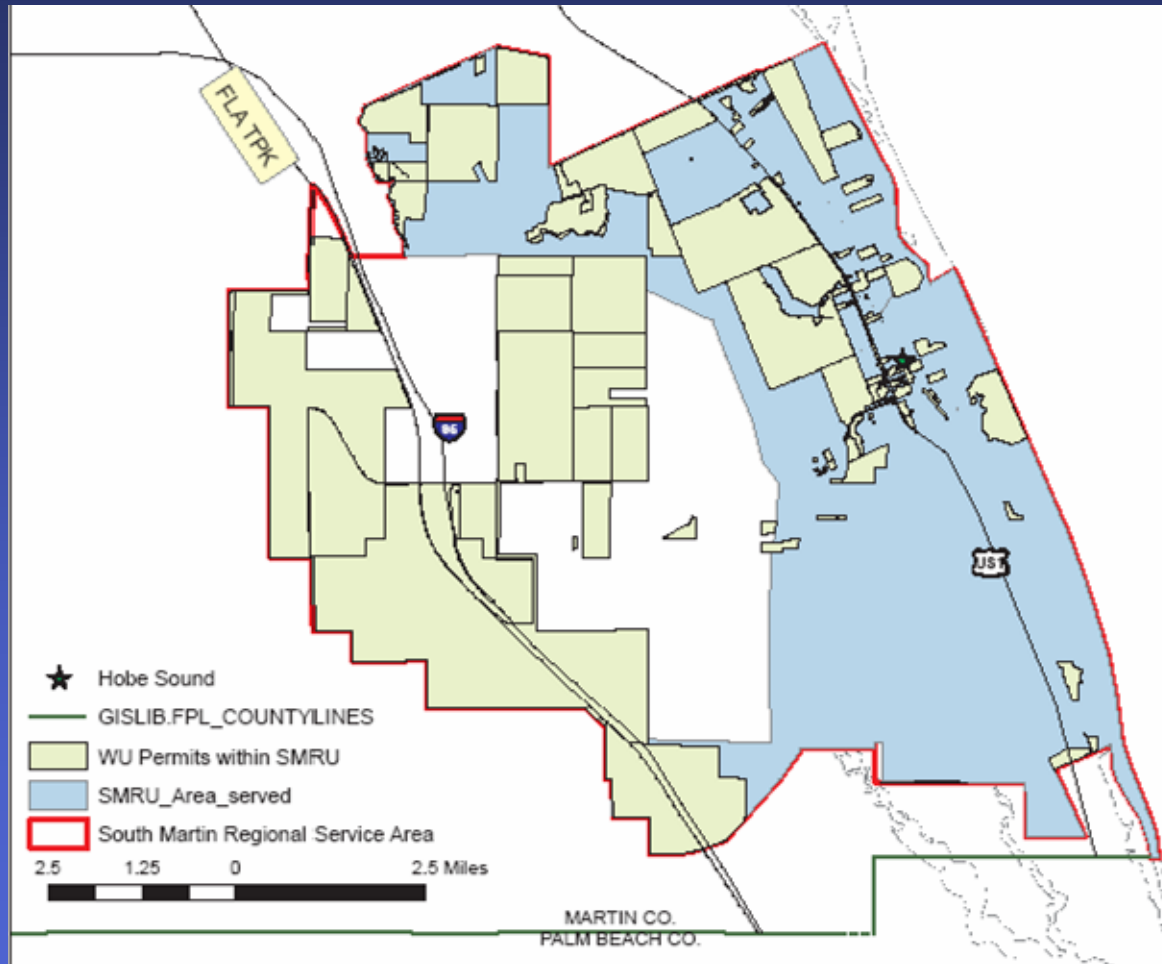


**Martin / St. Lucie Basin**

**Dry Season Rainfall to Date =**

**62% of normal  
- 3.62 inches**

**Other water users in the area served by SMRU:**  
**100 water use permits**  
**10.5 MGD from traditional sources**



# **South Martin Regional Utility**

## **Town of Jupiter Island & Hobe Sound**

- Previous Phase II water restrictions and rainfall in 2007 have helped maintain groundwater levels
- Dry season rainfall is 62% of normal & forecast is for drier than normal
- No connection to regional system - no back-up water sources
- Need to conserve & stretch existing supplies
- Staff recommends denial

***Consideration of an Order Approving  
Four Variances to Water Shortage  
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Item 42-D***

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# **Old Collier Golf Club**

- **Recommends approval**
- **Request exemption from Phase III water restrictions; use 100% Lower Hawthorn water**
- **Converted from Cocohatchee River because LH is less saline; use paspalum grass and other salt-tolerant plants**
- **Continue to report water usage weekly**

# **Pelican Colony**

- **Recommend approval**
- **Request exemption from Phase III water restrictions**
- **Will restrict water to permitted volume allocated for the Lower Hawthorn**
- **Converted to paspalum grass in 2005**
- **Will cease using the Water Table and Mid-Hawthorn aquifers**
- **Continue to report water usage weekly**

# Shell Point

- Recommend approval
- Request exemption from Phase III water restrictions; use 100% Lower Hawthorn water and reclaimed water
- Use some paspalum grass
- Continue to report water usage weekly



# **Colonial Golf and Country Club**

- **Recommend approval through 5/31/2008**
- **Request exemption from Phase III water restrictions**
- **Will restrict water use to permitted volume allocated for the Lower Hawthorn.**
- **Have taken additional steps to help flush salts and allow grass to survive**
- **Will cease using the Sandstone aquifer**
- **Continue to report water usage weekly**

# ***Additional Issues of Concern***

***South Florida Water Management District  
February 14, 2008***



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# **Supplemental Water Deliveries to the STAs**

- **Monitoring water levels in all STAs**
- **STA-2 and STA-3,4 have been of most concern**
- **Recent rains should help significantly**
- **May have to deliver supplemental water from the regional system to these two STAs prior to the next Board meeting**